# *COMMONWEALTH of VIRGINIA*

*DEPARTMENT OF ENVIRONMENTAL QUALITY*

PIEDMONT REGIONAL OFFICE

4949-A Cox Road, Glen Allen, Virginia 23060

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Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

Michael P. Murphy
Regional Director


April 4, 2014

Mr. Yan Chang
Vice President and General Manager
Chaparral (Virginia) Inc.
25801 Hofheimer Way
Petersburg, Virginia 23803

Registration No.: 51264
County-Plant No.: 053-0104

Dear Mr. Chang,

Attached is am initial Title V permit to operate your facility pursuant to 9 VAC 5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil penalty. Please read all conditions carefully.

This approval to operate does not relieve Chaparral (Virginia) Inc. of the responsibility to comply with all other local, state, and federal permit regulations.

Issuance of this permit is a case decision. The Regulations, at 9 VAC 5-170-200, provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this permit is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.

Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

Mr. David K. Paylor, Director
Department of Environmental Quality
P.O. Box 1105
Richmond, Virginia 23218

In the event that you receive this permit by mail, three days are added to the period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

If you have any questions concerning this permit, please call this office at (804) 527-5020.

Sincerely,

James E. Kyle, P.E.
Air Permit Manager

Attachment: Permit

cc: Director, OAPP (electronic file transmission)
Manager, Data Analysis (electronic file transmission)

# *COMMONWEALTH of VIRGINIA*

## *DEPARTMENT OF ENVIRONMENTAL QUALITY*


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Federal Operating Permit
Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300, of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

| | |
|---|---|
| Permittee Name: | Chaparral (Virginia) Inc. |
| Facility Name: | Chaparral (Virginia) Inc. |
| Facility Location: | Church Road and Squirrel Level Road<br>Dinwiddie County, VA |
| Registration Number: | 51264 |
| Permit Number: | PRO51264 |

This permit includes the following programs:

**Federally Enforceable Requirements - Clean Air Act (Pages 5 through 46)**
**State Only Enforceable Requirements (Page 46)**

04 April 2014
Effective Date

03 April 2019
Expiration Date

Deputy Regional Director

04 April 2014
Signature Date

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## Facility Information

Permittee
Chaparral (Virginia) Inc.
25801 Hofheimer Way
Petersburg, Virginia 23803

Responsible Official
Yan Chang
Vice President and General Manager

Facility
Chaparral (Virginia) Inc.
Church Road and Squirrel Level Road
Dinwiddie County, VA

Contact Person
John R. Skelley
Corporate Environmental Affairs Manager
(563) 554-7007

**County-Plant Identification Number**: 51-053-0104

**Facility Description**: NAICS 331110 - The Chaparral (Virginia) Inc. facility is a steel scrap mini-mill. The primary steel production operations include an auto shredder, an electric arc furnace (EAF), a ladle refining furnace (LRF), two continuous casters, preheat and reheat furnaces, and a rolling mill. Steel scrap and alloying materials are received by truck. Scrap received by truck is unloaded in the scrap yard. Steel is produced by melting the scrap in the EAF and is then tapped into a refractory lined ladle and taken to the LRF where the molten steel is analyzed to determine the correct amount of heat and alloy materials needed to adjust the steel to the desired chemistry and temperature for casting. After LRF refining, the ladle is transferred to the continuous caster where the steel is poured into a tundish. The tundish then distributes the liquid steel into multiple water-cooled copper molds. The remaining steps to produce steel include reheating in natural gas-fired furnaces and rolling. This permitting action is for the initial Title V permit issuance for the facility. The application was submitted on June 5, 2000 and deemed administratively complete on August 5, 2000.

## Emission Units

Equipment to be operated consists of:

| Emission Unit ID | Stack ID | Emission Unit Description | Size/Rated Capacity* | Pollution Control Device (PCD) Description | PCD ID | Pollutant Controlled | Applicable Permit Date |
|---|---|---|---|---|---|---|---|
| ES1 | EP1 | Electric Arc Furnace | 215 tons/hr | Positive Pressure Baghouse<br><br>Post Combustion Shaft Burners | CD1<br><br>N/A | Particulate<br><br>CO | 12/17/2010 |
| ES2 | EP1 | Ladle Refining Furnace | 215 tons/hr | Positive Pressure Baghouse | CD1 | Particulate | 12/17/2010 |
| ES3 | EP2 | Stein Heurty preheat furnace | 109 MMBtu/hr | Low NOx burners | N/A | NOx | 12/17/2010 |
| ES4 | EP2 | Stein Heurty reheat furnace | 186 MMBtu/hr | Low NOx burners | N/A | NOx | 12/17/2010 |
| ES5 | - | Scrap shredder/cascade separator | 235 tons/hr | N/A | N/A | N/A | 12/17/2010 |
| ES8 | EP6 | Ladle and Tundish Preheaters and dryers | 81.1 MMBtu/hr (total) | Low-NOx burners | N/A | NOx | 12/17/2010 |
| ES11 | Fugitive | Paved/Unpaved Road and Surfaces | N/A | Dust Control Program | N/A | Particulate | 12/17/2010 |
| ES15 | Fugitive | Contact Cooling Tower | 8,900 gpm | N/A | N/A | N/A | 12/17/2010 |
| ES16 | Fugitive | Non-contact cooling Tower | 44,463 gpm | N/A | N/A | N/A | 12/17/2010 |

| Emission Unit ID | Stack ID | Emission Unit Description | Size/Rated Capacity* | Pollution Control Device (PCD) Description | PCD ID | Pollutant Controlled | Applicable Permit Date |
|---|---|---|---|---|---|---|---|
| ES17 | EP17 | Lime Silos #1-3 | 85,000 tons/yr | Bin vent filters | N/A | Particulate | 12/17/2010 |
| ES18 | EP18 | Carbon Silo | 36,000 tons/yr | Bin vent filters | N/A | Particulate | 12/17/2010 |
| ES19 | EP19 | Alloy Unloading and Alloy/Lime/Carbon Transfer System | 60,000 tons/yr | Fabric Filters | N/A | Particulate | 12/17/2010 |
| ES22 | EP22 | Diesel-fired Emergency Pump at Contact Cooling Tower | 358 Hp | N/A | N/A | N/A | N/A |
| ES23 | EP23 | Diesel-fired Emergency Pump #1 at Non-Contact Cooling Tower | 358 Hp | N/A | N/A | N/A | N/A |
| ES24 | EP24 | Diesel-fired Emergency Pump #2 at Non-Contact Cooling Tower | 358 Hp | N/A | N/A | N/A | N/A |
| ES25 | EP25 | Diesel-fired Emergency Pump near preheat/reheat furnace stack | 80 Hp | N/A | N/A | N/A | N/A |
| ES33 | EP33 | Diesel-fired Emergency Back-up Generator Engine (West side, Mill Building) | 250 Hp | N/A | N/A | N/A | N/A |

| Emission Unit ID | Stack ID | Emission Unit Description | Size/Rated Capacity* | Pollution Control Device (PCD) Description | PCD ID | Pollutant Controlled | Applicable Permit Date |
|---|---|---|---|---|---|---|---|
| ES34 | EP34 | Natural Gas-fired Emergency Back-up Engine (Server Room) | 149 Hp | N/A | N/A | N/A | N/A |
| ES35 | EP35 | Emergency Back-up Engine (propane) (Communications Building) | 32 Hp | N/A | N/A | N/A | N/A |

*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

## Electric Arc Furnace and Ladle Refining Furnace; (ID# ES1-ES2)

1. **Process Equipment Requirements - (ES1) - Limitations** - Particulate emissions (particulate matter (PM) and particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10)) from the electric arc furnace (ES1) shall be controlled by furnace shaft evacuation and a common positive pressure baghouse (CD1) with a design control efficiency of 99.5% and a design flow rate of 1,100,000 dry standard cubic feet per minute. The common positive pressure baghouse shall be equipped with a device to continuously measure the differential pressure across the fabric filter. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times, except during system maintenance/repairs, calibration checks, and zero and span adjustments. The common positive pressure baghouse shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition #3 of 12/17/2010 Permit)

2. **Process Equipment Requirements - (ES2) - Limitations** - Particulate emissions (PM and PM10) from the ladle refining furnace (ES2) shall be controlled by a close fitting ladle roof evacuating to the common positive pressure baghouse (CD1). The common positive pressure baghouse shall be equipped with a device to continuously measure the differential pressure across the fabric filter. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times, except during system maintenance/repairs, calibration checks, and zero and span adjustments. The common positive pressure baghouse shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition #4 of 12/17/2010 Permit)

3. **Process Equipment Requirements - (ES1-ES2) - Limitations** - Fugitive particulate emissions (PM and PM10) from the tapping, slagging, and melting operations shall be controlled by meltshop design and a building evacuation system. The meltshop shall be designed with a building partition and movable crane doors to isolate the electric arc furnace (ES1) for enhanced containment of fugitive emissions. The building evacuation system shall exhaust to the common positive pressure baghouse (CD1). The common positive pressure baghouse shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition #5 of 12/17/2010 Permit)

4. **Process Equipment Requirements - (ES1, ES3, ES4, ES8) - Limitations** - Nitrogen oxide (NOx) emissions from the electric arc furnace (ES1), the preheat furnace (ES3), the reheat furnace (ES4), and the miscellaneous melt shop operations (ES8) shall be controlled by the use of low NOx burners. The electric arc furnace (ES1), the preheat furnace (ES3), the reheat furnace (ES4), and the miscellaneous melt shop operations (ES8) shall be provided with adequate access for inspection.
(9 VAC 5-80-110, and Condition #9 of 12/17/2010 Permit)

5. **Process Equipment Requirements - (ES1) - Limitations** - Volatile organic compound (VOC) emissions from the electric arc furnace (ES1) shall be controlled through the implementation of a scrap handling, management, and inspection (HMI) plan. At a minimum, the plan shall address:

   a. The name and telephone number of the on-site plant personnel who are responsible for the implementation of the plan;

   b. The personnel staffing required to execute the plan and individual responsibilities of each employee in the plan; and

   c. Scrap specifications designed to control inappropriate items and hazardous materials in scrap.

   As of the date of this permit, the permittee has submitted, and the Director, Piedmont Regional Office has approved, a scrap HMI plan meeting the requirements of this Condition. A copy of the approved scrap HMI plan shall be kept on site.
   (9 VAC 5-80-110 and Condition #10 of 12/17/2010 Permit)

6. **Process Equipment Requirements - (ES1) - Limitations** - Carbon monoxide (CO) emissions from the ducting of the electric arc furnace (ES1) shall be controlled by the use of ducting to capture emissions, the optimization of the operation of the EAF to minimize CO formation and post-combustion shaft burners with a combined maximum rated heat input capacity of at least 20.5 x $10^6$ BTU/hour to provide the time, temperature, and mixing conditions necessary to maximize the conversion of CO to $CO_2$. The post-combustion shaft burners shall be provided with adequate access for inspection and shall be in operation during all periods the EAF is in power-on mode while scrap is in the shaft such that the CO emissions standards and limits of Condition #9 are complied with.
   (9 VAC 5-80-110 and Condition #11 of 12/17/2010 Permit)

7. **Process Equipment Requirements - (ES1-ES2) – Limitations** - Fugitive particulate emissions (PM and PM10) from the baghouse dust handling system shall be controlled by enclosure of the equipment. The baghouse dust handling system shall be provided with adequate access for inspection.
   (9 VAC 5-80-110 and Condition #8 of 12/17/2010 Permit)

8. **Process Equipment Requirements - (ES1-ES2, ES8) - Limitations** - The steel recycling facility shall produce no more than 1,700,000 tons of molten steel per year, calculated as the sum of each consecutive 12 month period.
   (9 VAC 5-80-110 and Condition #35 of 12/17/2010 Permit)

9. **Process Equipment Requirements - (ES1-ES2) - Limitations** - Emissions from the operation of the meltshop (ES1 and ES2) exhausting from the common positive pressure baghouse (CD1) shall not exceed the limits specified below:

| Pollutant | Emission Limitation | Averaging Time | Compliance Method |
|---|---|---|---|
| CO | 2580.0 lbs/hr | 24-hour rolling average | CERMS specified in Condition #18 |
| CO | 10.5 lbs/ton | 30-day rolling average | CERMS specified in Condition #18 |
| CO | 5950.0 tons/yr | Sum of each consecutive 12-month period. | CERMS specified in Condition #18 |
| CO | 7.0 lbs/ton | 12-month rolling average | CERMS specified in Condition #18 |
| $NO_x$ | 150.5 lbs/hr | 24-hour rolling average | CERMS specified in Condition #18 |
| $NO_x$ | 0.7 lbs/ton | 30-day rolling average | CERMS specified in Condition #18 |
| $NO_x$ | 471.13 tons/yr | Sum of each consecutive 12-month period | CERMS specified in Condition #18 |

(9 VAC 5-80-110 and Condition #13 and #16 of 12/17/2010 Permit)

10. **Process Equipment Requirements - (ES1-ES2) - Limitations** - Emissions from the operation of the meltshop (ES1 and ES2) exhausting from the common positive pressure baghouse (CD1) shall not exceed the limits specified below:

| | | lbs/hr | tpy |
|---|---|---|---|
| Particulate Matter as determined by EPA Reference Method 5D | 0.0018 gr/dscf | 17.0 | 74.3 |
| PM10 as determined by EPA Reference Method 5D | 0.0018 gr/dscf | 17.0 | 74.3 |
| $SO_2$ based on a 24-hour average and determined by EPA Reference Method 6 or equivalent | 0.1 lbs/ton | 21.5 | 85.0 |
| VOC based on a 24-hour average and determined by EPA Reference Method 25 or equivalent | 0.22 lbs/ton | 47.3 | 187.0 |
| Lead based on a 24-hour average and determined by EPA Reference Method 29 or equivalent | | 0.34 | 1.49 |

Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-110 and Condition #14 and #15 of 12/17/2010 Permit)

11. **Process Equipment Requirements - (ES1-ES2) - Limitations** - Emissions from the operation of ES1 and ES2 exiting through the roof monitor shall not exceed the limits specified below:

| | lbs/hr | tpy |
|---|---|---|
| Particulate Matter | 7.3 | 28.9 |
| PM10 | 5.6 | 22.0 |

(9 VAC 5-80-110 and Condition #18 of 12/17/2010 Permit)

12. **Process Equipment Requirements - (ES1-ES2) – Limitations** - The common positive pressure baghouse (CD1) shall not exhibit visible emissions of 3 percent opacity or greater as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110 and Condition #25 of 12/17/2010 Permit)

13. **Process Equipment Requirements - (ES1-ES2) – Limitations** - Visible emissions from the baghouse dust handling system shall not exceed 10 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110 and Condition #28 of 12/17/2010 Permit)

14. **Process Equipment Requirements - (ES1) – Limitations – 40 CFR 63 Subpart YYYYY** - Visible emissions from the meltshop building and due solely to the operations of the electric arc furnace (ES1) shall not exceed 6 percent opacity as determined EPA Method 9 (reference 40 CFR 60, Appendix A).
(40 CFR 63.10686(b)(2), 9 VAC 5-80-110 and Condition #26 of 12/17/2010 Permit)

15. **Process Equipment Requirements - (ES1-ES2) - Limitations** -Visible emissions from the operation of ES1 and ES2 exiting through the roof monitor shall not exceed 10 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110 and Condition #27 of 12/17/2010 Permit)

16. **Process Equipment Requirements - (ES1) – Limitations - 40 CFR 63 Subpart YYYYY** - The permittee shall not discharge or cause the discharge into the atmosphere from the electric arc furnace (ES1) any gases which exit from the common positive pressure baghouse (CD1) and contain in excess of 0.0052 grains of PM per dry standard cubic foot (gr/dscf). Note that the requirements of 63.10686(a) and 63.10686(b)(2) are included in Conditions #1 and #14 of this permit.
(40 CFR 63.10686(b)(1), 9 VAC 5-80-110 and Condition #42 of 12/17/2010 Permit)

17. **Process Equipment Requirements - (ES1) – Limitations - 40 CFR 63 Subpart YYYYY** - Except where this permit is more restrictive than the applicable requirement, the permittee shall operate the EAF (ES1) in compliance with all requirements of 40 CFR 63 Subparts A and YYYYY).
(40 CFR 63 Subparts A and YYYYY, 9 VAC 5-80-110 and Condition #45 of 12/17/2010 Permit)

18. **Process Equipment Requirements - (ES1-ES2) - Monitoring** - Except during periods of acceptable monitor downtime as defined below, the permittee shall install, calibrate, operate, maintain and record the output of a continuous emission rate monitoring system (CERMS), for measuring emissions of carbon monoxide and nitrogen oxides from the operation of the meltshop (ES1 and ES2) exhausting to the common positive pressure baghouse (CD1). Each CERMS shall be installed, located, operated and maintained in accordance with the requirements of 40 CFR 60.13 and all applicable Appendixes and Performance Specifications of 40 CFR Part 60 (including 40 CFR 60, Appendices B and F). Unless otherwise approved by the Director, Piedmont Regional Office, the flow monitor portion of the CERMS shall meet the calibration drift assessment, relative accuracy test audit and reporting provisions of 40 CFR 60, Appendix F, procedure 1. Data from the CERMS, adjusted as applicable in accordance with 40 CFR 60.13(h)(2), shall be used to determine direct compliance with the emission limits in Condition #9 on a twenty-four hour or thirty day rolling average, as applicable. In accordance with 9 VAC 5-50-50, the Director, Piedmont Regional Office may approve adjustments to the CERMS requirements of Conditions #18-20 of this permit. For the purposes of this permit, acceptable monitor downtime includes reasonable periods due to (i) damage, malfunctions or breakdowns of the monitoring system that are not reasonably preventable, (ii) scheduled monitoring system maintenance based on the equipment manufacturer's recommendations, (iii) repairs of the monitoring system, and (iv) monitoring system downtime to conduct calibration drift checks, zero and span adjustments, calibration error audits, relative accuracy test audits, linearity checks, cylinder gas audits, or any other tests, checks, adjustments or audits required by this permit, any compliance document, applicable requirement, or at the request or direction of the Director, Piedmont Regional Office, or other applicable authority.
(9 VAC 5-80-110 and Condition #47 of 12/17/2010 Permit)

19. **Process Equipment Requirements - (ES1-ES2) - Monitoring** - Unless the frequency of such reports has been reduced by the Director, Piedmont Regional Office, the permittee shall submit excess emission reports for each CERMS to the Director, Piedmont Regional Office within 30 days after the end of each calendar quarter. Excess NOx and CO emissions are defined as any 24-hour or 30-day rolling average emission rate, computed in accordance with 40 CFR 60.13(h), that exceeds the applicable emission limit in Condition #9. Each quarterly excess emission report shall contain, at a minimum, the dates included in the calendar quarter and the following (additional details of the quarterly reports are to be arranged with the Director, Piedmont Regional Office):

    a. The magnitude of excess emissions, any conversion factors used in the calculation of excess emissions, and the date and time of commencement and completion of each period of excess emissions;

    b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the process, the nature and cause of the malfunction (if known), and the corrective action taken or preventative measures adopted;

    c. The date and time identifying each period during which the CERMS was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments; and

    d. When no excess emissions have occurred or the CERMS have not been inoperative, repaired or adjusted, such information shall be stated in that report.

    (9 VAC 5-80-110 and Condition #48 of 12/17/2010 Permit)

20. **Process Equipment Requirements - (ES1-ES2) - Monitoring** - The permittee shall submit reports to the Director, Piedmont Regional Office for each CERMS within 30 days after the end of each semi-annual period. Each semi-annual report shall include the dates included in the semi-annual period and the following:

    a. The hourly $NO_X$ and CO emission rates, in lbs/hr, as 24-hour rolling averages;

    b. Identification of days for which $NO_X$ and CO data have not been obtained by an approved method for at least 75 percent of operating hours, reasons for not obtaining sufficient data and corrective actions taken;

    c. Identification of any times when emissions data have been excluded from the calculation of average emission rates (except as allowed by 40 CFR 60.13), justification for excluding data and a description of corrective action taken;

    d. Identification of any times when the pollutant concentration exceeded the full span of the CERMS;

e. Description of any modifications to the CERMS that could affect its ability to comply with the requirements of 40 CFR 60, Appendices B and F; and

f. Summary of the results of daily CERMS calibration drift tests and semi-annual accuracy assessments as required by 40 CFR 60, Appendix F, Procedure 1.

The first semi-annual periods shall begin on the effective date of this permit and shall conclude at the earlier of June 30 or December 31 following the effective date. Thereafter, semi-annual periods shall begin on January 1 and July 1 and conclude six months later.
(9 VAC 5-80-110 and Condition #49 of 12/17/2010 Permit)

21. **Process Equipment Requirements - (ES1) – Monitoring - 40 CFR 63 Subpart YYYYY** - *Pollution prevention plan (PP Plan).* For the production of steel other than leaded steel, the permittee shall operate in accordance with the PP Plan (for metallic scrap selection and inspection to minimize the amount of chlorinated plastics, lead, and free organic liquids that is charged to the electric arc furnace (ES1)) most recently approved by the Director, Piedmont Regional Office. In the event the permittee desires to produce leaded steel, the permittee shall prepare and implement a PP Plan for scrap selection and inspection to minimize the amount of chlorinated plastics and free organic liquids in the scrap that is charged to the electric arc furnace (ES1). The permittee shall submit the PP Plan to the Director, Piedmont Regional Office for approval. The permittee shall operate according to the PP Plan as submitted during the review and approval process, operate according to the approved PP Plan at all times after approval, and address any deficiency identified by the Director, Piedmont Regional Office within 60 days following disapproval of a PP Plan. The permittee may request approval to revise the PP Plan and may operate according to the revised PP Plan unless and until the revision is disapproved by the Director, Piedmont Regional Office. The permittee shall keep a copy of the PP Plan onsite, and the permittee shall provide training on the PP Plan's requirements to all plant personnel with materials acquisition or inspection duties. The PP Plan shall include the information in 40 CFR 63.10685 paragraphs (a)(1)(i) through (iii):

a. Specifications that scrap materials shall be depleted (to the extent practicable) of undrained used oil filters, chlorinated plastics, and free organic liquids at the time of charging to the electric arc furnace (ES1);

b. A requirement in the permittee's scrap specifications for removal (to the extent practicable) of lead-containing components (such as batteries, battery cables, and wheel weights) from the scrap, except for scrap used to produce leaded steel; and

c. Procedures for determining if the requirements and specifications in (a) and (b) of this condition are met (such as visual inspection or periodic audits of scrap providers) and procedures for taking corrective actions with vendors whose shipments are not within specifications.

The requirements of this condition do not apply to the routine recycling of baghouse bags or other internal process or maintenance materials in the electric arc furnace (ES1). These exempted materials must be identified in the pollution prevention plan.
(40 CFR 63.10685(a), 9 VAC 5-80-110 and Condition #36 of 12/17/2010 Permit

22. **Process Equipment Requirements - (ES1) - Monitoring - 40 CFR 63 Subpart YYYYY** - *Mercury requirements*. For scrap containing motor vehicle scrap, the permittee shall procure scrap pursuant to either Condition #23 or #24 for each scrap provider, contract or shipment. For scrap that does not contain motor vehicle scrap, the permittee shall procure the scrap pursuant to the requirements of Condition #25 for each scrap provider, contract or shipment. The permittee may have one scrap provider, contract or shipment subject to one Condition and others subject to another Condition. As of the date of this permit, the permittee has submitted a Notification of Compliance Status certifying compliance with the mercury requirements of 40 CFR 63 Subpart YYYYY by use of the option specified in Condition #23. The selection by the permittee of one of the two Conditions for procuring scrap that contains motor vehicle scrap shall not limit the ability of the permittee to change to the other Condition at its election (provided all requirements associated with making that change, including the required notifications, are met).
(40 CFR 63.10685(b), 9 VAC 5-80-110 and Condition #37 of 12/17/2010 Permit

23. **Process Equipment Requirements - (ES1) - Monitoring - 40 CFR 63 Subpart YYYYY** - *Option for approved mercury programs*. As of the date of this permit, the permittee has certified in its Notification of Compliance Status that it participates in and purchases motor vehicle scrap only from scrap providers who participate in a program for removal of mercury switches that has been approved by the Administrator based on the criteria in paragraphs (b)(2)(i) through (iii) of 40 CFR 63.10685. If the permittee purchases motor vehicle scrap from a broker, the permittee shall certify that all scrap received from that broker was obtained from other scrap providers who participate in a program for the removal of mercury switches that has been approved by the Administrator based on the criteria in paragraphs (b)(2)(i) through (iii) of 40 CFR 63.10685. The National Vehicle Mercury Switch Recovery Program and the Vehicle Switch Recovery Program mandated by Maine State law are EPA-approved programs under 40 CFR 63.10685(b)(2) unless and until the Administrator disapproves the program (in part or in whole) under 40 CFR 63.10685(b)(2)(iii). The permittee shall develop and maintain onsite a plan demonstrating the manner through which the permittee is participating in the EPA-approved program.

    a. The plan shall include facility-specific implementation elements, corporate- wide policies, and/or efforts coordinated by a trade association as appropriate for each facility.

b. The permittee shall provide in the plan documentation of direction to appropriate staff to communicate to suppliers throughout the scrap supply chain the need to promote the removal of mercury switches from end-of-life vehicles. Upon the request of the Director, Piedmont Regional Office, the permittee shall provide examples of materials that are used for outreach to suppliers, such as letters, contract language, policies for purchasing agents, and scrap inspection protocols.

c. The permittee shall conduct periodic inspections or provide other means of corroboration to ensure that scrap providers are aware of the need for and are implementing appropriate steps to minimize the presence of mercury in scrap from end-of-life vehicles.

(40 CFR 63.10685(b)(2), 9 VAC 5-80-110 and Condition #38 of 12/17/2010 Permit

24. **Process Equipment Requirements - (ES1) - Monitoring - 40 CFR 63 Subpart YYYYY** - *Option for specialty metal scrap.* In the event the permittee elects to comply with Condition #22 using Condition #24, the permittee shall submit and certify in a notification of compliance status that the only materials from motor vehicles in the scrap are materials recovered for their specialty alloy (including, but not limited to, chromium, nickel, molybdenum, or other alloys) content (such as certain exhaust systems) and, based on the nature of the scrap and purchase specifications, that the type of scrap is not reasonably expected to contain mercury switches.
(40 CFR 63.10685(b)(3), 9 VAC 5-80-110 and Condition #39 of 12/17/2010 Permit

25. **Process Equipment Requirements - (ES1) - Monitoring - 40 CFR 63 Subpart YYYYY** - *Scrap that does not contain motor vehicle scrap.* For scrap not subject to the requirements in Conditions #23 and #24, the permittee shall certify in its notification of compliance status and maintain records of documentation that this scrap does not contain motor vehicle scrap.
(40 CFR 63.10685(b)(4), 9 VAC 5-80-110 and Condition 40 of 12/17/2010 Permit)

26. **Process Equipment Requirements - (ES1) - Monitoring - 40 CFR 63 Subpart YYYYY** - *Startup, shutdown and malfunction (SSM) plan.* The permittee shall develop and implement a written startup, shutdown and malfunction (SSM) plan as specified in 40 CFR 63.6(e)(3). This plan shall describe, in detail, procedures for operating and maintaining the electric arc furnace (ES1) during periods of SSM and a program for corrective action for malfunctioning process and air pollution control equipment used to comply with 40 CFR 63 Subpart YYYYY. As of the date of this permit, the permittee has submitted, and the Director, Piedmont Regional Office has approved a SSM plan meeting the requirements of this Condition. A copy of the approved SSM plan shall be kept on site.
(40 CFR 63.6(e)(3), 9 VAC 5-80-110 and Condition #43 of 12/17/2010 Permit)

27. **Process Equipment Requirements - (ES1-ES2) – Monitoring - Compliance Assurance Monitoring (CAM)** - The facility shall perform monthly operational status inspections of the equipment that is important to the performance of the total capture system. This inspection shall include observations of the physical appearance of the equipment, including, but not limited to, presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion. Any deficiencies shall be noted and proper maintenance performed.
(9 VAC 5-80-110 and Condition #52 of 12/17/2010 Permit)

28. **Process Equipment Requirements - (ES1) - Monitoring - Compliance Assurance Monitoring (CAM)** - Visible emission observations shall be conducted on the common positive pressure baghouse (CD1) at least once per day when the electric arc furnace (ES1) is operating in the melting and refining period. These observations shall be taken in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A), and, for at least three 6-minute periods, the opacity shall be recorded for any points where visible emissions are observed. Where it is possible to determine that a number of visible emission sites relate to only one incident of the visible emissions, only one set of three 6-minute observations will be required. In this case, Method 9 observations must be made for the site of highest opacity that directly related to the cause or location of visible emissions observed during a single incident. Records shall be maintained of any 6 minute average that is in excess of the emission limit specified in Condition #12. Allowances shall be made for periods of meltshop down time and poor weather.
(9 VAC 5-80-110 and Condition #50 of 12/17/2010 Permit)

29. **Process Equipment Requirements - (ES1-ES2) – Monitoring - Compliance Assurance Monitoring (CAM)** - The facility shall check and record on a once-per-shift basis the control system fan motor amperes and damper position.
(9 VAC 5-80-110 and Condition #51 of 12/17/2010 Permit)

30. **Process Equipment Requirements - (ES1-ES2) - Monitoring - Compliance Assurance Monitoring (CAM)** - The permittee shall conduct the monitoring and fulfill the other obligations specified in 40 CFR 64.7 through 40 CFR 64.9.
(9 VAC 5-80-110 E and 40 CFR 64.6 (c))

31. **Process Equipment Requirements - (ES1-ES2) – Monitoring - Compliance Assurance Monitoring (CAM)** - At all times, the permittee shall maintain the monitoring equipment, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
(9 VAC 5-80-110 E and 40 CFR 64.7 (b))

32. **Process Equipment Requirements - (ES1-ES2) – Monitoring - Compliance Assurance Monitoring (CAM)** - Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that ES1-ES2 are operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of compliance assurance monitoring, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by inadequate maintenance or improper operation are not malfunctions.
(9 VAC 5-80-110 E and 40 CFR 64.7 (c))

33. **Process Equipment Requirements - (ES1-ES2) – Monitoring - Compliance Assurance Monitoring (CAM)** - Upon detecting an excursion or exceedance, the permittee shall restore operation of ES1-ES2 (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup and shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator, designated Condition, or below the applicable emission limitation or standard, as applicable.
(9 VAC 5-80-110 E and 40 CFR 64.7 (d)(1))

34. **Process Equipment Requirements - (ES1-ES2) – Monitoring -Compliance Assurance Monitoring (CAM)** - Determination that acceptable procedures were used in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
(9 VAC 5-80-110 E and 40 CFR 64.7(d)(2))

35. **Process Equipment Requirements - (ES1-ES2) – Monitoring - Compliance Assurance Monitoring (CAM)** - If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated Conditions, the permittee shall promptly notify the Director, Piedmont Regional Office and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated Conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
(9 VAC 5-80-110 E and 40 CFR 64.7(e))

36. **Process Equipment Requirements - (ES1-ES2) – Monitoring - Compliance Assurance Monitoring (CAM)** - If the number of exceedances or excursions exceeds 5 percent duration of the operating time for ES1-ES2 for a semiannual reporting period, the permittee shall develop, implement and maintain a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8. If a QIP is required, the permittee shall have it available for inspection. The QIP initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the permittee shall modify the plan to include procedures for conducting one or more of the following, as appropriate:

    a. Improved preventative maintenance practices;

    b. Process operation changes;

    c. Appropriate improvements to control methods;

    d. Other steps appropriate to correct control performance; and

    e. More frequent or improved monitoring.

    (9 VAC 5-80-110 E and 40 CFR 64.8(a) and (b))

37. **Process Equipment Requirements - (ES1) - Recordkeeping - 40 CFR 63 Subpart YYYYY** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with the requirements of 40 CFR 63 Subpart YYYYY. The content of and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall include, but are not limited to:

    a. The occurrence and duration of each startup or shutdown when the startup or shutdown causes the source to exceed the particulate matter emission standard of Condition #16 or the opacity emission standard of Condition #14;

b. The occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the required air pollution control and monitoring equipment;

c. All required maintenance performed on the air pollution control and monitoring equipment;

d. Actions taken during periods of startup or shutdown when the source exceeded the particulate matter emission standard of Condition #16 or the opacity emission standard of Condition #14 and when the actions taken are different from the procedures specified in the permittee's SSM plan; or actions taken during periods of malfunction (including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation) when the actions taken are different from the procedures specified in the permittee's SSM plan;

e. All information necessary, including actions taken, to demonstrate conformance with the permittee's SSM plan when all actions taken during periods of startup or shutdown (and the startup or shutdown causes the source to exceed the particulate matter emission standard of Condition #16 or the opacity emission standard of Condition #14), and malfunction (including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan (the information needed to demonstrate conformance with the SSM plan may be recorded using a "checklist," or some other effective form of recordkeeping, in order to minimize the recordkeeping burden for conforming events); and

f. All notifications of compliance status and all documentation supporting the initial notifications and notifications of compliance status required by 40 CFR 63 Subpart YYYYY.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(40 CFR 63.10(b), 9 VAC 5-80-110 and Condition #44 of 12/17/2010 Permit)

38. **Process Equipment Requirements - (ES1) – Recordkeeping - 40 CFR 63Subpart YYYYY** - *Recordkeeping and reporting requirements*. In addition to the records required by 40 CFR 63.10, the permittee shall keep records to demonstrate compliance with the requirements for the PP Plan in Condition #21 and for mercury in Conditions #22 through #24 as applicable. The permittee shall keep records documenting compliance with Condition #25 for scrap that does not contain motor vehicle scrap.

a. The permittee shall maintain records identifying each scrap provider and documenting the scrap provider's participation in an approved mercury switch removal program. If the permittee purchases motor vehicle scrap from a broker, the permittee shall maintain records identifying each broker and documentation that all scrap provided by the broker was obtained from other scrap providers who participate in an approved mercury switch removal program.

b. The permittee shall submit semiannual compliance reports to the Director, Piedmont Regional Office for the control of contaminants from scrap according to the requirements in §63.10(e). The report shall clearly identify any deviation from the requirements in Conditions #21 through #25 and the corrective action taken. The permittee shall identify which compliance option in Condition #22 applies to each scrap provider, contract, or shipment.

(40 CFR 63.10685(c), 9 VAC 5-80-110 and Condition #41 of 12/17/2010 Permit)

39. **Process Equipment Requirements - (ES1-ES2, ES8) – Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall include, but are not limited to:

a. The yearly production of steel in tons, calculated monthly as the sum of each consecutive 12 month period;

b. The daily production of steel in tons;

c. Periods during which the control system fan motor amperes operated at values exceeding ±15 percent of the values established in accordance with 40 CFR 60.274a(c); and

d. Time, date, and findings of the monthly operational status inspections required in Condition #27;

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-110 and Condition #55 of 12/17/2010 Permit)

40. **Process Equipment Requirements - (ES1) - Reporting - 40 CFR 63 Subpart YYYYY** - The permittee shall furnish written notification to the Director, Piedmont Regional Office of:

    a. Applicable Notifications of Compliance (NOC) containing the information specified in 40 CFR 63.9(h)(2)(i). Each NOC shall also include the applicable certifications specified at 40 CFR 63.10690(b). Each NOC shall be postmarked before the close of business on the 60th day following completion of the relevant compliance demonstration, except to the extent such time period has been adjusted by the Director, Piedmont Regional Office, in accordance with 40 CFR 63.9(h)(2)(ii).

    (40 CFR 63.10690, 40 CFR 63.9(h), 9 VAC 5-50-50, 9 VAC 5-80-110 and Condition #53 of 12/17/2010 Permit)

41. **Process Equipment Requirements - (ES1-ES2) - Reporting - 40 CFR 63 Subpart YYYYY** - The permittee shall submit the following reports to demonstrate compliance with this permit. The content of and format of such reports shall be arranged with the Director, Piedmont Regional Office. These reports shall include, but are not limited to:

    a. Periodic Start-up, Shutdown and Malfunction Reports containing the information specified in 40 CFR 63.10(d)(5)(i) shall be submitted if actions taken by the permittee during a startup or shutdown (and the startup or shutdown causes the electric arc furnace (ES1) to exceed the particulate matter emission standard of Condition #16 or the opacity emission standard of Condition #14), or malfunction of the electric arc furnace (ES1) (including actions taken to correct a malfunction) are consistent with the procedures specified in the SSM plan. The SSM report shall be delivered or postmarked by the 30th day following the end of each calendar half;

    b. Immediate Start-up, Shutdown and Malfunction Reports containing the information specified in 40 CFR 63.10(d)(5)(ii) shall be submitted any time an action taken by the permittee during a startup or shutdown that caused the electric arc furnace to exceed the particulate matter emission standard of Condition #16 or the opacity emission standard of Condition #14, or malfunction (including actions taken to correct a malfunction) is not consistent with the procedures specified in the SSM plan. The permittee shall submit the report within 2 working days after commencing actions inconsistent with the plan followed by a letter within 7 working days after the end of the event; and

    (40 CFR 63.10(d), 9 VAC 5-50-50, 9 VAC 5-80-110 and Condition #54 of 12/17/2010 Permit)

42. **Process Equipment Requirements - (ES1-ES2) – Reporting** - Semi annually the facility shall submit a written report of exceedances of the opacity standard in Condition #12. For the purposes of these reports, exceedances are defined as all 6-minute periods during which the average opacity is 3 percent or greater. These reports shall also contain the periods during which the control system fan motor amperes value exceeded ±15 percent of the value established in accordance with 40 CFR 60.274a(c). Operation at these values may be considered to be unacceptable operation and maintenance of the facility.
(9 VAC 5-80-110 and Condition #56 of 12/17/2010 Permit)

## Preheat Furnace and Reheat Furnace; (ID# ES3-ES4)

43. **Fuel Burning Equipment Requirements - (ES3-ES4) - Limitations** - Emissions from the operation of the preheat furnace (ES3) and the reheat furnace (ES4) exiting through a common stack and which are based on the use of natural gas shall not exceed the limits specified below:

| | lbs/hr | tpy |
|---|---|---|
| Particulate Matter | 3.0 | 9.7 |
| PM10 | 3.0 | 9.7 |
| Carbon Monoxide (CO) | 22.1 | 72.4 |
| Nitrogen Oxides ($NO_x$) | 62.0 | 203.1 |
| Sulfur Dioxide ($SO_2$) | 0.2 | 0.6 |
| Volatile Organic Compounds (VOC) | 1.6 | 5.1 |

(9 VAC 5-80-110 and Condition #17 of 12/17/2010 Permit)

44. **Fuel Burning Equipment Requirements - (ES3-ES4, ES8) - Limitations** - The approved fuel for the preheat furnace (ES3) and the reheat furnace (ES4) is natural gas. The approved fuel for the miscellaneous meltshop operations (ES8) is natural gas. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition #33 of 12/17/2010 Permit)

45. **Fuel Burning Equipment Requirements - (ES3-ES4) - Limitations** - The combined annual throughput of natural gas to the preheat furnace (ES3) and the reheat furnace (ES4) shall not exceed 1,934 million cubic feet per year, calculated as the sum of each consecutive 12 month period.
(9 VAC 5-80-110 and Condition #34 of 12/17/2010 Permit)

46. **Fuel Burning Equipment Requirements - (ES3-ES4) – Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall include, but are not limited to:

    a. The combined yearly throughput of natural gas in million cubic feet to the preheat furnace (ES3) and the reheat furnace (ES4), calculated monthly as the sum of each consecutive 12 month period.

    These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
    (9 VAC 5-80-110 and Condition #55 of 12/17/2010 Permit)

## Scrap Shredder/Cascade Separator; (ID# ES5)

47. **Process Equipment Requirements - (ES5) - Limitations** - Fugitive particulate emissions (PM and PM10) from scrap shredding (ES5) shall be controlled by the use of a water deluge system. The scrap shredding process shall be provided with adequate access for inspection.
    (9 VAC 5-80-110 and Condition #7 of 12/17/2010 Permit)

48. **Process Equipment Requirements - (ES5) - Limitations** - Fugitive emissions from the operation of the shredder (ES5) shall not exceed the limits specified below:

| | lbs/hr | tpy |
|---|---|---|
| Particulate Matter | 0.9 | 3.6 |
| PM10 | 0.7 | 3.2 |

(9 VAC 5-80-110 and Condition #20 of 12/17/2010 Permit)

## Ladle and Tundish Pre-heaters and Dryers; (ID# ES8)

49. **Fuel Burning Equipment Requirements - (ES8) - Limitations** - Fugitive emissions from the operation of the ladle and tundish pre-heaters and dryers (ES8) shall not exceed the limits specified below:

| | lbs/hr | tpy |
|---|---|---|
| Particulate Matter | 0.9 | 4.0 |
| PM10 | 0.9 | 4.0 |
| Carbon Monoxide (CO) | 2.0 | 8.7 |
| Nitrogen Oxides ($NO_x$) | 7.8 | 34.3 |

| | | |
|---|---|---|
| Sulfur Dioxide ($SO_2$) | 0.1 | 0.2 |
| Volatile Organic Compounds (VOC) | 0.5 | 1.9 |

(9 VAC 5-80-110 and Condition #19 of 12/17/2010 Permit)

## Paved/Unpaved Roads and Surfaces; (ID# ES11)

50. **Process Equipment Requirements - (ES11) - Limitations** - Fugitive particulate emissions (PM and PM10) from traffic and storage piles shall be controlled through the implementation of a dust management plan. The plan shall contain:

    a. The name and telephone number of the on-site plant personnel who are responsible for the implementation of the plan;

    b. The frequency of street cleaning for paved roads and paved parking lots;

    c. The frequency of wetting for dust suppression on unpaved roads and storage piles;

    d. The frequency of the application of binders to inhibit dust emissions from unpaved roads and storage piles; and

    e. The enforcement of vehicular traffic speed limitations to prevent airborne dust.

    As of the date of this permit, the permittee has submitted, and the Director, Piedmont Regional Office has approved, a dust management plan meeting the requirements of this Condition. A copy of the approved dust management plan shall be kept on site.
    (9 VAC 5-80-110 and Condition #6 of 12/17/2010 Permit)

51. **Process Equipment Requirements - (ES11) - Limitations** - Fugitive emissions from vehicular traffic shall not exceed the limits specified below:

| | lbs/hr | tpy |
|---|---|---|
| Particulate Matter | 10.0 | 5.5 |
| PM10 | 2.0 | 1.1 |

(9 VAC 5-80-110 and Condition #23 of 12/17/2010 Permit)

52. **Process Equipment Requirements - (ES11) - Recordkeeping** – The permittee shall maintain records of operating parameters necessary to demonstrate compliance with Conditions #50-51. The content of and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
    (9 VAC 5-80-110)

## Contact and Non-Contact Cooling Towers; (ID# ES15-ES16)

53. **Process Equipment Requirements - (ES15-ES16) – Limitations** - Chromium-based water treatment chemicals shall not be used in the cooling towers.
(9 VAC 5-80-110 and Condition #12 of 12/17/2010 Permit)

54. **Process Equipment Requirements - (ES15) – Limitations** - Fugitive emissions from the operation of the contact cooling tower (ES15) shall not exceed the limits specified below:

| | lbs/hr | tpy |
|---|---|---|
| Particulate Matter | 0.9 | 3.9 |
| PM10 | 0.9 | 3.9 |

(9 VAC 5-80-110 and Condition #21 of 12/17/2010 Permit)

55. **Process Equipment Requirements - (ES16) – Limitations** - Fugitive emissions from the operation of the noncontact cooling tower (ES16) shall not exceed the limits specified below:

| | lbs/hr | tpy |
|---|---|---|
| Particulate Matter | 1.1 | 4.9 |
| PM10 | 1.1 | 4.9 |

(9 VAC 5-80-110 and Condition #22 of 12/17/2010 Permit)

56. **Process Equipment Requirements - (ES15-ES16) – Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall include, but are not limited to:

    a. Monthly total dissolved solids test results from the cooling tower water to be used to determine compliance with the emission limits in Conditions #54 and #55;

    b. Material Safety Data Sheets (MSDS) for all water treatment chemicals used in the water cooling towers to be used to determine compliance with Condition #53.

    These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
    (9 VAC 5-80-110 and Condition #55 of 12/17/2010 Permit)

## Lime Silos #1-3, Carbon Silo and Alloy Unloading and Alloy/Lime/Carbon Transfer System; (ID# ES17-ES19)

57. **Process Equipment Requirements - (ES17) – Limitations** - Particulate emissions (PM and PM10) from the common vent from lime silos #1 and #2 and the vent from lime silo #3 (collectively ES17) shall be controlled by bin vent filters. The bin vent filters shall be provided with adequate access for inspection and maintenance and shall be properly functioning when the process is in operation.
(9 VAC 5-80-110 and Condition #57 of 12/17/2010 Permit)

58. **Process Equipment Requirements - (ES17) – Limitations** - The combined annual throughput of lime to the lime silos (ES17) shall not exceed 85,000 tons per year, calculated as the sum of each consecutive 12 month period.
(9 VAC 5-80-110 and Condition #60 of 12/17/2010 Permit)

59. **Process Equipment Requirements - (ES18) – Limitations** - Particulate emissions (PM and PM10) from the carbon silo (ES18) shall be controlled by a bin vent filter. The bin vent filter shall be provided with adequate access for inspection and maintenance and shall be properly functioning when the process is in operation.
(9 VAC 5-80-110 and Condition #58 of 12/17/2010 Permit)

60. **Process Equipment Requirements - (ES18) – Limitations** - The annual throughput of carbon to the carbon silo (ES18) shall not exceed 36,000 tons per year, calculated as the sum of each consecutive 12 month period.
(9 VAC 5-80-110 and Condition #61 of 12/17/2010 Permit)

61. **Process Equipment Requirements - (ES19) – Limitations** - Particulate emissions (PM and PM10) from the alloy unloading and alloy/lime/carbon transfer system (ES19) shall be controlled by fabric filters, partial enclosures or equivalent. The fabric filters, partial enclosures or equivalent shall be provided with adequate access for inspection and maintenance and shall be properly functioning when the process is in operation.
(9 VAC 5-80-110 and Condition #59 of 12/17/2010 Permit)

62. **Process Equipment Requirements - (ES19) – Limitations** - The annual throughput of alloy to the alloy unloading and alloy/lime/carbon transfer system (ES19) shall not exceed 60,000 tons per year, calculated as the sum of each consecutive 12 month period.
(9 VAC 5-80-110 and Condition #62 of 12/17/2010 Permit)

63. **Process Equipment Requirements - (ES17-ES19) – Limitations** - Emissions from the operation of the emission units specified below shall not exceed the limits specified below:

| Lime Silos (ES17) | lbs/hr | tpy |
|---|---|---|
| Particulate Matter | 0.1 | 0.3 |

| | | |
|---|---|---|
| PM10 | 0.1 | 0.2 |
| Carbon Silo (ES18) | lbs/hr | tpy |
| Particulate Matter | 0.1 | 0.1 |
| PM10 | 0.1 | 0.1 |
| Alloy Unloading and Alloy/Lime/Carbon Transfer System (ES19) | lbs/hr | tpy |
| Particulate Matter | 2.5 | 1.6 |
| PM10 | 1.2 | 0.8 |

(9 VAC 5-80-110 and Condition #63 of 12/17/2010 Permit)

64. **Process Equipment Requirements - (ES17-ES19) – Limitations -** Visible emissions from each fabric filter and bin vent filter required by Conditions #57, #59 and #61 shall not exceed 5 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-80-110 and Condition #64 of 12/17/2010 Permit)

65. **Process Equipment Requirements - (ES17-ES19) – Monitoring -** Each fabric filter and bin vent filter required by Conditions #57, #59 and #61 shall be observed visually once per week for at least a brief time period during normal operations to determine if there are any visible emissions. For the bin vent filters, the weekly observation shall be performed during the silo loading process. The presence of visible emissions shall indicate the need for prompt corrective action. The permittee shall keep a log of the observations. The log shall include the name of the observer, the date and time of the observations, the presence of visible emissions or lack thereof, and the date and time of corrective actions taken whenever visible emissions were observed.
(9 VAC 5-80-110 and Condition #65 of 12/17/2010 Permit)

66. **Process Equipment Requirements - (ES17-ES19) – Recordkeeping -** The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall include, but are not limited to:

    a. The yearly throughput of lime, carbon and alloy, in tons, to the lime silos (ES17), carbon silo (ES18) and alloy unloading and alloy/lime/carbon transfer system (ES19), respectively, calculated monthly as the sum of each consecutive 12 month period; and

    b. The visible emission observation log required by Condition #65.

    These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
    (9 VAC 5-80-110 and Condition #66 of 12/17/2010 Permit)

## Emergency Diesel, Natural Gas and Propane Fired Engines; (ID# ES22-ES25, ES33-ES35)

67. **Fuel Burning Equipment Requirements - (ES22-ES25, ES33) – Limitations – 40 CFR 63 Subpart ZZZZ** - The permittee shall, as a minimum, change the oil and oil filter every 500 hours of operation or annually, whichever comes first, for each engine (ES22-ES25, ES35). The facility shall inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. The facility shall also inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. The facility shall minimize the engines' time spent at idle during startup and minimize the engines' startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.
(9 VAC 5-80-110, 40 CFR §§63.6603 (a), §63.6625(i) and Table 2d (4) of 40 CFR 63 Subpart ZZZZ)

68. **Fuel Burning Equipment Requirements - (ES22-ES25, ES33) – Limitations - 40 CFR 63 Subpart ZZZZ** – The facility shall demonstrate continuous compliance with applicable operating limitations, work practice, and management practice, standards found in National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (Table 2d to MACT, Subpart ZZZZ). Each emergency diesel-fired engine (ES22-ES25, ES33) shall have a non-resettable hour meter.
(9 VAC 5-80-110, 40 CFR §63.6640(a) and 40 CFR §63.6625 (f))

69. **Fuel Burning Equipment Requirements - (ES22-ES25, ES33) – Limitations - 40 CFR 63 Subpart ZZZZ** – For emergency engines (ES22-ES25, ES33), any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this condition, shall be prohibited:

    a. There shall be no time limit on the use of emergency engines (ES22-ES25, ES33) in emergency situations.

    b. The permittee may operate emergency engines (ES22-ES25, ES33) for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the unit. Maintenance checks and readiness testing of such units shall be limited to 100 hours per year. The permittee may petition the Director, Piedmont Regional Office for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency engines (ES22-ES25, ES33) beyond 100 hours per year.

c. The permittee may operate each emergency engine (ES22-ES25, ES33) up to 50 hours per year in non-emergency situations, but those 50 hours shall be counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations shall not be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that the permittee may operate each emergency engine (ES22-ES25, ES33) for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. Each emergency engine (ES22-ES25, ES33) shall not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and each emergency engine's (ES22-ES25, ES33) operation shall be terminated immediately after the permittee is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation shall be counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this condition, as long as the power provided by the financial arrangement is limited to emergency power.

(9 VAC 5-80-110 and 40 CFR 63.6640(f))

70. **Fuel Burning Equipment Requirements - (ES22-ES25, ES33) – Limitations - 40 CFR 63 Subpart ZZZZ** – The permittee shall operate in compliance with all applicable requirements of 40 CFR 63 Subparts A and ZZZZ. Table 8 of 40 CFR 63 Subpart ZZZZ shows which parts of the General Provisions in 40 CFR 63.1 through 63.15 apply to the permittee.
(9 VAC 5-80-110 and 40 CFR 63, Subparts A and ZZZZ)

71. **Fuel Burning Equipment Requirements - (ES34-ES35) - Limitations – 40 CFR 60 Subpart JJJJ** – The facility shall operate and maintain the natural gas-fired (ES34) and propane gas-fired (ES35) emergency engines according to the manufacturer's emission-related written instructions, as well as meet the applicable requirements as specified in 40 CFR Part 1068, Subparts A through D. Adjustments to the settings on the natural gas-fired (ES34) and propane gas-fired (ES35) emergency engines must be performed according to the manufacturer's instructions, otherwise the engine will be out of compliance. If the natural gas-fired (ES34) and/or propane gas-fired (ES35) emergency engines are not operated or maintained according to the manufacturer's emission related instructions, the engine(s) will be considered a non-certified engine(s) and the facility must demonstrate compliance by:

a. Developing a maintenance plan and keeping records of the conducted maintenance on the engine(s).

b. Maintaining and operating the engine(s) in a manner consistent with good air pollution control practice for minimizing emissions.

c. Conducting an initial performance test within 1 year of engine(s) start-up to demonstrate compliance.

(9 VAC 5-80-110 and 40 CFR §60.4243)

72. **Fuel Burning Equipment Requirements - (ES34-ES35) – Limitations - 40 CFR 60 Subpart JJJJ** – The natural gas-fired (ES34) and propane gas-fired (ES35) emergency engines shall have a non-resettable hour meter.
(9 VAC 5-80-110, 40 CFR §60.4237)

73. **Fuel Burning Equipment Requirements - (ES34-ES35) – Limitations - 40 CFR 60 Subpart JJJJ** – For emergency engines (ES34-ES35), any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this condition, shall be prohibited:

a. There shall be no time limit on the use of emergency engines (ES34-ES35) in emergency situations.

b. The permittee may operate emergency engines (ES34-ES35) for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the unit. Maintenance checks and readiness testing of such units shall be limited to 100 hours per year. The permittee may petition the Director, Piedmont Regional Office for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency engines (ES34-35) beyond 100 hours per year.

c. The permittee may operate each emergency engine (ES34-ES35) up to 50 hours per year in non-emergency situations, but those 50 hours shall be counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations shall not be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that the permittee may operate each emergency engine (ES34-ES35) for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. Each emergency engine (ES34-ES35) shall not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and each emergency engine's (ES34-ES35) operation shall be terminated immediately after the permittee is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation shall be counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this condition, as long as the power provided by the financial arrangement is limited to emergency power.

(9 VAC 5-80-110 and 40 CFR 60.4243(d))

74. **Fuel Burning Equipment Requirements - (ES34-ES35) – Limitations - 40 CFR 60 Subpart JJJJ** – The permittee shall operate in compliance with all applicable requirements of 40 CFR 60 Subparts A and JJJJ. Table 3 of 40 CFR 60 Subpart JJJJ shows which parts of the General Provisions in 40 CFR 60.1 through 60.19 apply to the permittee.
(9 VAC 5-80-110 and 40 CFR 60, Subparts A and JJJJ)

75. **Fuel Burning Equipment Requirements - (ES22-ES25 and ES33-ES35) – Limitations** - Visible emissions from (ES22-ES25 and ES33-ES35) shall not exceed 20 percent opacity, except for one six-minute period in any one hour of not more than 30% opacity. Failure to meet the requirements of this condition because of the presence of water vapor shall not be a violation of this section.
(9 VAC 5-80-110 and 9 VAC 5-50-80)

76. **Fuel Burning Equipment Requirements - (ES22-ES25 and ES33-ES35) – Monitoring** - Emission units, ES22-ES25 and ES33, subject to Condition #75, shall be observed visually at least once each operating month. Emission units ,ES34-ES35, subject to Condition #75, shall be observed visually at least once each six month calendar period, beginning with the permit term. Each emission unit shall be monitored for at least a brief time period to determine which emissions units have normal visible emissions (does not include condensed water vapor/steam), unless a 40 CFR 60 Appendix A Method 9 visible emissions evaluation is performed on the emissions unit. Each emissions unit observed having above-normal visible emissions shall be followed up with a 40 CFR 60 Appendix A Method 9 visible emissions evaluation unless the visible emission condition is corrected as expeditiously as possible and recorded, and the cause and corrective measures taken are recorded.
(9 VAC 5-80-110)

77. **Fuel Burning Equipment Requirements - (ES22-ES25 and ES33-ES35) – Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Region. These records shall include, but are not limited to:

    a. The results of the monthly visible emission surveys required by Condition #76 and details of any corrective action taken as a result of these inspections.

    These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
    (9 VAC 5-80-110)

78. **Fuel Burning Equipment Requirements - (ES22-ES25, ES33) – Recordkeeping - 40 CFR 63 Subpart ZZZZ** - The facility shall maintain records documenting conformance with applicable operating limitations, work practice, and management practice standards found in National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (Table 2d to MACT, Subpart ZZZZ). These records shall include but are not limited to:

    a. Records of the hours of operation of the engine as recorded through the non-resettable hour meter. Records of how many hours the engine was operated in an emergency operation and what classified the operation as an emergency. Records of how many hours the engine spent in a non-emergency operation.

    b. Records of oil and filter changes and inspections of air cleaners, hoses, and belts, as they occur.

c. Records of maintenance done on the engine which demonstrates that the engine is operated or maintained according to the manufacturer's emission related operation and maintenance instructions or your own maintenance plan for minimizing emissions and operating the engine in a manner consistent with good air pollution control practices.

d. Records of occurrence and duration of each malfunction of operation and the corrective actions taken to minimize the emissions and restore the malfunctioning engine.

e. The above records must be kept for five (5) years in hard copy or electronic format and must be readily accessible.

(9 VAC 5-80-110 and 40 CFR §63.6655)

79. **Fuel Burning Equipment Requirements - (ES34-ES35) – Recordkeeping** - The facility shall maintain records documenting conformance with applicable operating limitations, work practice, and management practice standards found in the New Source Performance Standards 40 CFR 60 Subpart JJJJ for Spark Ignition Stationary Engines. These records shall include but are not limited to:

a. Records of maintenance conducted on the natural gas-fired (ES34) and propane gas-fired (ES35) emergency engines which demonstrate the engine is being operated and maintained according to the manufacturer's emission related written instructions.

b. For the natural gas-fired (ES34) emergency engine records of documentation from the manufacturer that the engine is certified to the emission standards and information as required in Table 1 of 40 CFR 60, Subpart JJJJ.

c. If the natural gas-fired (ES34) emergency engine is operated in a non-certified manner, documentation that the engine(s) meets the emission standards identified in Table 1 of 40 CFR Part 60 Subpart JJJJ.

d. If the propane gas-fired (ES35) emergency engine is operated in a non-certified manner, documentation that the engine(s) meets the emission standards identified in 40 CFR Part 90.

e. Records of all notifications and supporting documentation that is submitted to comply with this regulation. (For compliance specifically with this regulation, this engine is not required to submit any notifications to the EPA or the State.)

f. The above records must be kept for five (5) years in hard copy or electronic format and must be readily accessible.

(9 VAC 5-80-110, 40 CFR §60.4245)

80. **Fuel Burning Equipment Requirements - (ES22-ES25 and ES33-ES35) – Reporting** - The permittee shall report the results of any 40 CFR Part 60 Method 9 opacity test performed as a result of Condition #76. If the test indicates the facility is out of compliance with the standard contained in Condition #75, the source shall also report the length of time associated with any exceedance of the standard and the corrective actions taken to correct the exceedance. This report shall be sent to the Director, Piedmont Regional Office within seven days of the applicable test.
(9 VAC 5-80-110)

## Facility Wide Conditions

81. **Facility Wide Conditions - Limitations** - Regardless of the emission limitations listed in Conditions #9-11, #43, #48-49, #51, #54 and #55, facility wide emissions from all permitted Article 8 emission units shall not exceed:

| | lbs/hr | tpy |
|---|---|---|
| Particulate Matter | 42.3 | 136.0 |
| PM10 | 31.6 | 123.5 |
| Sulfur Dioxide ($SO_2$) | 21.8 | 85.8 |
| Nitrogen Oxides ($NO_x$) | 249.8 | 708.53 |
| Carbon Monoxide (CO) | 2604.1 | 6031.1 |
| Volatile Organic Compounds (VOC) | 49.4 | 194.0 |
| Lead | 0.34 | 1.49 |

(9 VAC 5-80-110 and Condition #24 of 12/17/2010 Permit)

82. **Facility Wide Conditions – Limitations** - Visible emissions from (ES3-ES5, ES8 and ES15-ES16) shall not exceed 20 percent opacity, except for one six-minute period in any one hour of not more than 30 percent opacity. Failure to meet the requirements of this condition because of the presence of water vapor shall not be a violation of this section.
(9 VAC 5-80-110 and 9 VAC 5-50-80)

83. **Facility Wide Conditions – Monitoring** - Each emission unit subject to Conditions #13-15 and Condition #82, shall be observed visually at least once each operating month for at least a brief time period to determine which emissions units have normal visible emissions (does not include condensed water vapor/steam), unless a 40 CFR 60 Appendix A Method 9 visible emissions evaluation is performed on the emissions unit. Each emissions unit observed having above-normal visible emissions shall be followed up with a 40 CFR 60 Appendix A Method 9 visible emissions evaluation unless the visible emission condition is corrected as expeditiously as possible and recorded, and the cause and corrective measures taken are recorded.
(9 VAC 5-80-110)

84. **Facility Wide Conditions - Monitoring** - The permitted facility shall be constructed so as to allow for emissions testing and monitoring upon reasonable notice at any time, using appropriate methods. Test ports shall be provided at the appropriate locations.
(9 VAC 5-80-110 and Condition #46 of 12/17/2010 Permit)

85. **Facility Wide Conditions - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall include, but are not limited to:

    a. Continuous monitoring system calibrations and calibration checks, percent operating time and excess emissions, and adjustments and maintenance preformed on continuous monitoring systems and devices; and

    b. Information required in each excess emission report and continuous monitoring system semi-annual report as required in this permit.

    c. The results of the monthly visible emission surveys required by Condition #83 and details of any corrective action taken as a result of these inspections.

    These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
    (9 VAC 5-80-110 and Condition #55 of 12/17/2010 Permit)

86. **Facility Wide Conditions - Reporting** - The permittee shall report the results of any 40 CFR Part 60 Method 9 opacity test performed as a result of Condition #83. If the test indicates the facility is out of compliance with the standard contained in Conditions #13-15 and Condition #82, the source shall also report the length of time associated with any exceedance of the standard and the corrective actions taken to correct the exceedance. This report shall be sent to the Director, Piedmont Regional Office within seven days of the applicable test.
(9 VAC 5-80-110)

## Insignificant Emission Units

87. **Insignificant Emission Units** - The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

| Emission Unit No. | Emission Unit Description | Citation | Pollutant(s) Emitted (9 VAC 5-80-720 B) | Rated Capacity (9 VAC 5-80-720 C) |
|---|---|---|---|---|
| ES12 | Shredder Conveyors Transfer points, and storage piles | 9 VAC 5-80-720 B | TSP/PM10 | N/A |
| ES20 | Solvent degreasing operations | 9 VAC 5-80-720 B | VOC | 80 gallon |
| ES21 | Miscellaneous natural gas fired combustion units | 9 VAC 5-80-720 C | PM, PM10, $SO_x$, $NO_x$, CO, VOC | < 10 MMBtu/hr each |
| ES26, ES27, ES28 | Above ground Fuel and Oil storage tanks | 9 VAC 5-80-720 B | VOC | N/A |
| ES30 | Continuous Caster | 9 VAC 5-80-720 B | TSP/PM10 | N/A |
| ES31 | Rolling Mill | 9 VAC 5-80-720 B | TSP/PM10 | N/A |
| ES32 | Lancing Station | 9 VAC 5-80-720 B | TSP/PM10 | N/A |
| INSIG1 | Product Marking | 9 VAC 5-80-720 B | VOC | N/A |
| INSIG2 | Miscellaneous Painting | 9 VAC 5-80-720 B | TSP/PM10 VOC | N/A |
| INSIG3 | Miscellaneous Scrap loading/unloading | 9 VAC 5-80-720 B | TSP/PM10 | N/A |
| INSIG4 | Metal Cutting | 9 VAC 5-80-720 B | TSP/PM10 | N/A |
| INSIG5 | Mill Scale Processing | 9 VAC 5-80-720 B | TSP/PM10 | N/A |

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

## Permit Shield & Inapplicable Requirements

88. **Permit Shield & Inapplicable Requirements** - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

| Citation | Title of Citation | Description of Applicability |
|---|---|---|
| None | None | None |
| | | |

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

## General Conditions

89. **General Conditions - Federal Enforceability** - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)

90. **General Conditions - Permit Expiration** - This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

91. **General Conditions - Permit Expiration** - The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

92. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

93. **General Conditions - Permit Expiration** - No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

94. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

95. **General Conditions - Permit Expiration** - The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

96. **General Conditions -Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

    a. The date, place as defined in the permit, and time of sampling or measurements;

    b. The date(s) analyses were performed;

    c. The company or entity that performed the analyses;

    d. The analytical techniques or methods used;

    e. The results of such analyses; and

    f. The operating conditions existing at the time of sampling or measurement.
    (9 VAC 5-80-110 F)

97. **General Conditions -Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. (9 VAC 5-80-110 F)

98. **General Conditions -Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

    a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31; and

    b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:

        i. Exceedance of emissions limitations or operational restrictions;

        ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,

        iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

    c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

    (9 VAC 5-80-110 F)

99. **General Conditions - Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

a. The time period included in the certification. The time period to be addressed is January 1 to December 31;

b. The identification of each term or condition of the permit that is the basis of the certification;

c. The compliance status;

d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;

e. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;

f. Such other facts as the permit may require to determine the compliance status of the source; and

g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov
(9 VAC 5-80-110 K.5)

100. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Director, PRO Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition #98 of this permit.
(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

101. **General Conditions - Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, PRO Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, PRO Regional Office.
(9 VAC 5-20-180 C)

102. **General Conditions - Failure/Malfunction Reporting** - The emission units that have continuous monitors subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not subject to the 14 day written notification.
(9 VAC 5-20-180 C, 9 VAC 5-40-50, and 9 VAC 5-50-50)

103. **General Conditions - Failure/Malfunction Reporting** - The emission units subject to the reporting and the procedure requirements of 9 VAC 5-40-50 C and the procedures of 9 VAC 5-50-50 C are listed below:

a. ES1 and ES2: Melt shop Operations

(9 VAC 5-20-180 C, 9 VAC 5-40-50, and 9 VAC 5-50-50)

104. **General Conditions - Failure/Malfunction Reporting** - Each owner required to install a continuous monitoring system (CMS) or monitoring device subject to 9 VAC 5-40-41 or 9 VAC 5-50-410 shall submit a written report of excess emissions (as defined in the applicable subpart in 9 VAC 5-50-410) and either a monitoring systems performance report or a summary report form, or both, to the Board. All semi-annual reports shall be postmarked by the 30th day following the end of each calendar semi-annual period (June 30th and January 30th). All reports shall include the following information:

a. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h) or 9 VAC 5-40-41 B.6, any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;

b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;

c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and

d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.

All malfunctions of emission units not subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C require written reports within 14 days of the discovery of the malfunction.
(9 VAC 5-20-180 C, 9 VAC 5-40-50, and 9 VAC 5-50-50)

105. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)

106. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)

107. **General Conditions - Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)

108. **General Conditions - Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9 VAC 5-80-190 and 9 VAC 5-80-260)

109. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)

110. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)

111. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)

112. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350 in addition to an annual permit maintenance fee consistent with the requirements of 9 VAC 5-80-2310 through 9 VAC 5-80-2350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. The amount of the annual permit maintenance fee shall be the largest applicable base permit maintenance fee amount from Table 8-11A in 9 VAC 5-80-2340, adjusted annually by the change in the Consumer Price Index.
(9 VAC 5-80-110 H, 9 VAC 5-80-340 C and 9 VAC 5-80-2340 B)

113. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;

d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,

e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-90)

114. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
(9 VAC 5-50-20 E)

115. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.
(9 VAC 5-80-110 J)

116. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.

b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.

c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.

d. Sample or monitor at reasonable times' substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
(9 VAC 5-80-110 K.2)

117. **General Conditions - Reopening For Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F. The conditions for reopening a permit are as follows:

a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.
(9 VAC 5-80-110 L)

118. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
(9 VAC 5-80-150 E)

119. **General Conditions - Transfer of Permits** - No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)

120. **General Conditions - Transfer of Permits** - In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

121. **General Conditions - Transfer of Permits** - In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

122. **General Conditions - Malfunction as an Affirmative Defense** - A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements stated in Condition #123 are met.
(9 VAC 5-80-250)

123. **General Conditions - Malfunction as an Affirmative Defense** - The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:

a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.

b. The permitted facility was at the time being properly operated.

c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.

d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.

(9 VAC 5-80-250)

124. **General Conditions - Malfunction as an Affirmative Defense** - In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
(9 VAC 5-80-250)

125. **General Conditions - Malfunction as an Affirmative Defense** - The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.
(9 VAC 5-80-250)

126. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-190 C and 9 VAC 5-80-260)

127. **General Conditions - Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-80 E)

128. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A-F)

129. **General Conditions - Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)

130. **General Conditions - Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

131. **General Conditions - Changes to Permits for Emissions Trading** - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)

132. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

a. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.

b. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.

c. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)

## State-Only Enforceable Requirements

133. **State-Only Enforceable Requirements** - The following terms and conditions are not required under the federal Clean Air Act or under any of its applicable federal requirements, and are not subject to the requirements of 9 VAC 5-80-290 concerning review of proposed permits by EPA and draft permits by affected states.

9 VAC 5 Chapter 50, Part II, Article 2: Standards of Performance for Odorous Emissions
(9 VAC 5-80-110 N and 9 VAC 5-80-300)